

PF-0531 USN

<110> BANDMAN, Olga  
LAL, Preeti  
TANG, Y. Tom  
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GUEGLER, Karl J.  
BAUGHN, Mariah R.  
PATTERSON, Chandra

<120> Cell Cycle Regulation Proteins

<130> PF-0531 USN

<140> 09/701,675  
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<150> PCT/US99/12906  
<151> 1999-06-08

<150> 60/088,695  
<151> 1998-06-08

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35 40 45  
Ser Pro Pro Arg Pro Asn His Tyr Leu Leu Ile Asp Thr Gln Gly  
50 55 60  
Val Pro Tyr Thr Val Leu Val Asp Glu Glu Ser Gln Arg Glu Pro  
65 70 75  
Gly Ala Ser Gly Ala Pro Gly Gln Lys Lys Cys Tyr Ser Cys Pro  
80 85 90  
Val Cys Ser Arg Val Phe Glu Tyr Met Ser Tyr Leu Gln Arg His  
95 100 105  
Ser Ile Thr His Ser Glu Val Lys Pro Phe Glu Cys Asp Ile Cys  
110 115 120  
Gly Lys Ala Phe Lys Arg Ala Ser His Leu Ala Arg His His Ser  
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Ile His Leu Ala Gly Gly Gly Arg Pro His Gly Cys Pro Leu Cys  
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Pro Arg Arg Phe Arg Asp Ala Gly Glu Leu Ala Gln His Ser Arg  
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50 55 60  
Asp Val Ile Ala Ser Ile Phe Ser Ser Ala Trp Trp Val Pro Pro  
65 70 75  
Cys Cys Gly Thr Ala Ser Ala Val Ile Gly Leu Leu Tyr Pro Cys  
80 85 90  
Ile Asp Arg His Leu Gly Glu Pro His Lys Phe Lys Arg Glu Trp  
95 100 105  
Ser Ser Val Met Arg Cys Val Ala Val Phe Val Gly Ile Asn His  
110 115 120  
Ala Ser Ala Lys Val Asp Phe Asp Asn Asn Ile Gln Leu Ser Leu  
125 130 135  
Thr Leu Ala Ala Leu Ser Ile Gly Leu Trp Trp Thr Phe Asp Arg  
140 145 150  
Ser Arg Ser Gly Phe Gly Leu Gly Val Gly Ile Ala Phe Leu Ala  
155 160 165  
Thr Val Val Thr Gln Leu Leu Val Tyr Asn Gly Val Tyr Gln Tyr  
170 175 180  
Thr Ser Pro Asp Phe Leu Tyr Val Arg Ser Trp Leu Pro Cys Ile  
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Ala	Ala	Val	Ala	Gln	Ala	Pro	Pro	Ala	Val	Ala	Ser	Ser	Ser	Leu
									35		40			45
Phe	Asp	Leu	Ser	Val	Leu	Lys	Leu	His	His	Ser	Leu	Gln	Gln	Ser
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Glu	Pro	Asp	Leu	Arg	His	Leu	Val	Leu	Val	Val	Asn	Thr	Leu	Arg
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Arg	Ile	Gln	Ala	Ser	Met	Ala	Pro	Ala	Ala	Leu	Pro	Pro	Val	
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Pro	Ser	Pro	Pro	Ala	Ala	Pro	Ser	Val	Ala	Asp	Asn	Leu	Leu	Ala
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Ser	Ser	Asp	Ala	Ala	Leu	Ser	Ala	Ser	Met	Ala	Ser	Leu	Leu	Glu
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Asp	Leu	Ser	His	Ile	Glu	Gly	Leu	Ser	Gln	Ala	Pro	Gln	Pro	Leu
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Ala	Asp	Glu	Gly	Pro	Pro	Gly	Arg	Ser	Ile	Gly	Gly	Ala	Ala	Pro
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Ser	Leu	Gly	Ala	Leu	Asp	Leu	Leu	Gly	Pro	Ala	Thr	Gly	Cys	Leu
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Leu	Asp	Asp	Gly	Leu	Glu	Gly	Leu	Phe	Glu	Asp	Ile	Asp	Thr	Ser
									170		175			180
Met	Tyr	Asp	Asn	Glu	Leu	Trp	Ala	Pro	Ala	Ser	Glu	Gly	Leu	Lys
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Pro	Gly	Pro	Glu	Asp	Gly	Pro	Gly	Lys	Glu	Glu	Ala	Pro	Glu	Leu
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Asp	Glu	Ala	Glu	Leu	Asp	Tyr	Leu	Met	Asp	Val	Leu	Val	Gly	Thr
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Leu	Leu	Asn	Pro	Tyr	Thr	Ile	Leu	Ser	Cys	Val	Ala	Lys	Ser	Thr
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Cys	Ala	Ile	Asn	Asn	Thr	Leu	Ile	Ala	Phe	Phe	Ile	Leu	Thr	Thr
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Ile	Lys	Gly	Ser	Ala	Phe	Leu	Ser	Ala	Ile	Phe	Leu	Ala	Leu	Ala
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Thr	Tyr	Gln	Ser	Leu	Tyr	Pro	Leu	Thr	Leu	Phe	Val	Pro	Gly	Leu
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		125							130					135
Lys	Ala	Phe	Trp	Ile	Phe	Ser	Trp	Glu	Tyr	Ala	Met	Met	Tyr	Val
		140							145					150
Gly	Ser	Leu	Val	Val	Ile	Ile	Cys	Leu	Ser	Phe	Phe	Leu	Leu	Ser
		155							160					165
Ser	Trp	Asp	Phe	Ile	Pro	Ala	Val	Tyr	Gly	Phe	Ile	Leu	Ser	Val
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Pro	Asp	Leu	Thr	Pro	Asn	Ile	Gly	Leu	Phe	Trp	Tyr	Phe	Phe	Ala
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Glu	Met	Phe	Glu	His	Phe	Ser	Leu	Phe	Phe	Val	Cys	Val	Phe	Gln
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Ile	Asn	Val	Phe	Phe	Tyr	Thr	Ile	Pro	Leu	Ala	Ile	Lys	Leu	Lys
		215							220					225
Glu	His	Pro	Ile	Phe	Phe	Met	Phe	Ile	Gln	Ile	Ala	Val	Ile	Ala
		230							235					240
Ile	Phe	Lys	Ser	Tyr	Pro	Thr	Val	Gly	Asp	Val	Ala	Leu	Tyr	Met
		245							250					255
Ala	Phe	Phe	Pro	Val	Trp	Asn	His	Leu	Tyr	Arg	Phe	Leu	Arg	Asn
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Ile	Phe	Val	Leu	Thr	Cys	Ile	Ile	Ile	Val	Cys	Ser	Leu	Leu	Phe
		275							280					285
Pro	Val	Leu	Trp	His	Leu	Trp	Ile	Tyr	Ala	Gly	Ser	Ala	Asn	Ser
		290							295					300
Asn	Phe	Phe	Tyr	Ala	Ile	Thr	Leu	Thr	Phe	Asn	Val	Gly	Gln	Ile
		305							310					315
Leu	Leu	Ile	Ser	Asp	Tyr	Phe	Tyr	Ala	Phe	Leu	Arg	Arg	Glu	Tyr
		320							325					330
Tyr	Leu	Thr	His	Gly	Leu	Tyr	Leu	Thr	Ala	Lys	Asp	Gly	Thr	Glu
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35 40 45  
Glu Gln Glu Glu Leu Gln Ala Leu Gln Ile Glu Gln Gly Glu Ser  
50 55 60  
Ser Gln Asn Gly Thr Val Leu Met Glu Glu Thr Ala Tyr Pro Ala  
65 70 75  
Leu Glu Glu Thr Ser Ser Thr Ile Glu Ala Glu Glu Gln Lys Ile  
80 85 90  
Pro Glu Asp Ser Ile Tyr Ile Gly Thr Ala Ser Asp Asp Ser Asp  
95 100 105  
Ile Val Thr Leu Glu Pro Pro Lys Leu Glu Glu Ile Gly Asn Gln  
110 115 120  
Glu Val Val Ile Val Glu Glu Ala Gln Ser Ser Glu Asp Phe Asn  
125 130 135  
Met Gly Ser Ser Ser Ser Gln Tyr Thr Phe Cys Gln Pro Glu  
140 145 150  
Thr Val Phe Ser Ser Gln Pro Ser Asp Asp Glu Ser Ser Ser Asp  
155 160 165  
Glu Thr Ser Asn Gln Pro Ser Pro Ala Phe Arg Arg Arg Arg Ala  
170 175 180  
Arg Lys Lys Thr Val Ser Ala Ser Glu Ser Glu Asp Arg Leu Val  
185 190 195  
Ala Glu Gln Glu Thr Glu Pro Ser Lys Glu Leu Ser Lys Arg Gln  
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Phe Ser Ser Gly Leu Asn Lys Cys Val Ile Leu Ala Leu Val Ile  
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Ala Ile Ser Met Gly Phe Gly His Phe Tyr Gly Thr Ile Gln Ile  
230 235 240  
Gln Lys Arg Gln Gln Leu Val Arg Lys Ile His Glu Asp Glu Leu  
245 250 255  
Asn Asp Met Lys Asp Tyr Leu Ser Gln Cys Gln Gln Glu Gln Glu  
260 265 270  
Ser Phe Ile Asp Tyr Lys Ser Leu Lys Glu Asn Leu Ala Arg Cys  
275 280 285  
Trp Thr Leu Thr Glu Ala Glu Lys Met Ser Phe Glu Thr Gln Lys  
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305 310 315  
Lys Glu Glu Lys Ala Leu Ser Ser Leu Gln Glu Glu Leu Asn Lys  
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Leu Arg Glu Gln Ile Arg Ile Leu Glu Asp Lys Gly Thr Ser Thr  
335 340 345  
Glu Leu Val Lys Glu Asn Gln Lys Leu Lys Gln His Leu Glu Glu  
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Glu Lys Gln Lys Lys His Ser Phe Leu Ser Gln Arg Glu Thr Leu  
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Arg Lys Leu Thr Phe Glu Gln Gln Arg	Ser Asp Leu Trp Glu Arg	
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Gly Lys Lys Gly Gly Arg Gly Ser	His Arg Ala Lys Asn Lys	
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Ser Asp Ser Val Lys Ser Thr Phe Arg	His Phe Lys Asp Thr Thr	
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Lys Asn Ile Phe Asp Glu Lys Gly Asn	Lys Arg Phe Gly Ala Thr	
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Lys Glu Ala Ala Glu Lys Pro Arg Thr	Val Phe Ser Asp Tyr Leu	
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His Pro Gln Tyr Lys Ala Pro Thr Glu	Asn His His Asn Arg Gly	
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Pro Thr Met Gln Asn Asp Gly Arg Lys	Glu Lys Pro Val His Phe	
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His Asp Cys Arg Glu Asn Ser His Ser	Phe Arg Lys Ala Cys Ser	
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Gly Val Phe Asp Cys Ala Gln Gln Glu	Ser Met Ser Leu Phe Asn	
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Thr Val Val Asn Pro Ile Arg Met Asp	Glu Phe Arg Gln Ile Ile	
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Gln Arg Tyr Met Leu Lys Glu Leu Asp	Thr Phe Cys His Trp Asn	
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Glu Leu Asp Gln Phe Ile Asn Lys Phe	Phe Leu Asn Gly Val Phe	
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Asp Tyr Leu Arg Asn Met Lys Glu Tyr	Glu Val Asp Asn Asp Gly	
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Val Phe Glu Lys Leu Asp Glu Tyr Ile	Tyr Arg His Phe Phe Gly	
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<223> Incyte ID No: 1596581

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 gggaccatg gctgactgac agcaaggcct atggggaga actgggagct ccccaacttg 1500  
 gaccccccacc ttgtggctct gcacaccaag gagcccccctc ccagacacca aggagaagag 1560  
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<210> 10  
 <211> 3006  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1853196

<400> 10

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 ttggactgtc atcagtc当地 aggggtc当地 tatagaaatg ttgaattctg tgaccccccac 180  
 tgacagctgt gagccccc当地 cagaatgttc atctttagag caagaggagc ttcaagcatt 240  
 gcagatagag caaggagaaaa gcagccaaaa tggcacagtg cttatggaaag aaactgctt 300  
 tccagctttg gaggaaacca gctcaacaat tgaggcagag gaacaaaaga taccggaa 360  
 cagtatctat attggaaactg ccagtgtatc ttctgatatt gttacccttgc agccacctaa 420  
 gttagaagaa attggaaatc aagaagtgtt cattgttgc当地 gaagcacacca gttcagaaga 480  
 cttaacatg ggctcttc当地 cttagcagccatc gtatacttgc当地 tgtagccag aaactgtatt 540  
 ttcatctc当地 cctagtgatc atgaatcaag tagtgatgaa accagtaatc agcccgatcc 600  
 tgcctttaga cgacgccc当地 cttaggaaagc gaccgttct gcttc当地 ctaagacccg 660  
 gctagttgtc gaacaagaaaa ctgaacccctc taaggagttg agtaaacgtc agttcagtag 720  
 tggctcaat aagtgtgtt tacttgctt ggtgattgca atcagcatgg gatttggcca 780  
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 aagccacagg gctaaaaata agtcaaaggaa aacatTTTG ggttcagtt aagaaacatt 1560  
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 gaaaagaaaag ccagttcaact ttaaagaatt cagaaaaaaat acaaattcaa agaaatgcag 1920  
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 gaaagatgaa gtctaaaaat tattagctgt tacaatgaa acatttcatt ataacgttat 2520  
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 gtgaaattat ttcccttaa tctttatgt atttattcac ttttggaaagc taggaatgag 2700  
 caacacaaat ttactctga agtcagaaga gctcatatataaataattcta atgtcccacc 2760  
 tattttcact tgcatttcc atgtaccagg tttagtttga tacttagtca cataattatc 2820  
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 ttcataataa tttttatcc atttcatct ttatattctg taacatgaaa cttacctaata 2940  
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 tgtgtat 3006

<210> 11  
 <211> 684  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 108390F1

<220>  
 <221> unsure  
 <222> 269, 285, 295, 312, 366, 375, 378, 397, 406, 428, 495, 501, 503, 586,  
 592, 610, 613, 643  
 <223> a, t, c, g, or other

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 gttccccct taaagccgta gttactagtc gttctcttc cagttctctc ttttagcatct 120  
 ttgcttctgt caacagagtc tcccttgc taagaaagct gtgtttttc tgctttcct 180  
 cttccaaatg ctgcttaagt ttctgatTTT ctttaactaa ttcaactt gtccctttat 240  
 cttccaaat tctaatttgt tctcttagt tgtttaactc ttccngtaat gaggntaagg 300  
 cttttcttc cttctccagg gataactctt aataactgatt ttctgttagca aggttcgttt 360  
 ctgagnttca aaggncanc tctctgcttc agtaagngtc caacancttcaagatttct 420

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ttcaatgnct tataatctat aaaagttctt gttcccgttg acacggggaa ggtaatcctc 480  
atatcatcaa ttcancttc ngnatcttc tgactaactg ttgacggttc tgaatctgaa 540  
tgtgccatag gaatggccaa atccccatgtc gattgcaatc accaangcaa gnataacaca 600  
cttattgggn ccnctactga actgacggtt actcaactcc ttnggagggt cagttcttgt 660  
tcagcaacta gccggtcttc agat 684

<210> 12  
<211> 416  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 1211009R1

<400> 12  
aagaattcta ccaaggagtt tgtaaggcat cataaagaga aaattaagca ggctaaagaa 60  
gctgtgaagg aaaatctgaa aaaattctca gattcagtt aatccacttt cagacacttt 120  
aaagatacca ccaagaatat ctttgatgaa aagggtataaa aaagatttgg tgctacaaaa 180  
gaagcagctg aaaaaccaag aacagtttt agtgactatt tacatccaca gtataaggca 240  
cctacagaaa accatcataa tagaggccct actatgcaaa atgatgaaag gaaagaaaaag 300  
ccagttcact ttaaagaatt cagaaaaaat acaaattcaa agaaatgcag tcctggcat 360  
gattgttagag aaaattctca ttcttcaga aaggcttgg ctggtgtatt tgattg 416

<210> 13  
<211> 609  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 1211009T1

<220>  
<221> unsure  
<222> 25, 152, 166, 169, 173-174, 180, 183, 186, 192-193, 198, 200, 205,  
220, 230, 233, 236, 243, 246, 251, 285, 307, 309-310, 317, 319, 329,  
344-345, 377, 475, 485, 556, 573, 583, 594  
<223> a, t, c, g, or other

<400> 13  
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ttatgaagta cacacattag aatttgactt gnttagttt cctctntngn ccnnntacctrn 180  
tancanaggt anntatgnngn ctaantatca taactaagcn ggtacatggn atnganaagt 240  
ganaanaggt nggacattag aaatttattat atatgagctc ttctnacttc agagaaaaat 300  
tttgttngnn cattccnanc ttccaaaant gaataaatac atannagatt aaaggaaaaat 360  
aatttcactt aagggtgnct tttcatataa actataatga gaagaaacaa acttggccaa 420  
attaggattt tatatatattct taactgattt ttaagataga aaattaaacc atttnctcaa 480  
gtcanagtga tcacgttata atgaaatgtt ccatttgtaa cagctaataa ttttagact 540  
ccatctttca atttantctg aattctctca gtngccataa agncaactct tagnaacggt 600  
acttcaag 609

<210> 14

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<211> 189

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1352052H1

<400> 14

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atggaatgac agggtctggt ggggactgaa ttccctggcc ctggggcat agcttgggct 120  
gttccttctc tgatacggga agagaccca atcagattt tcaaattaaa gccagtcctg 180  
ggaaatctc 189

<210> 15

<211> 473

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1391767F1

<220>

<221> unsure

<222> 34, 59-60, 134, 168, 311, 314, 344, 347, 354, 364, 391, 393, 401,  
407, 413, 416, 426, 445-447, 453-454, 459, 471

<223> a, t, c, g, or other

<400> 15

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ttcgaacagc agcgTTCTGA tttgtggaa agattgtatg ttgaggcaaa agatcaaaat 120  
ggaaaacaag gaanagatgg aaaaaagaaa gggggcagag gaagccanag ggctaaaaat 180  
aagtcaaagg aaacattttt gggttcagtt aaggaaacat ttgatgccat gaagaattct 240  
accaaggagt ttgttaaggca tcataaagag aaaattaAGC aggctaaaga agctgtgaag 300  
gaaaatctga naanattctc agattcagtt aaatccactt tccnngnact ttanagtacc 360  
cccnagggtta tctttgatga aaagggtaat nanagtttgg ngctacnAAA gangcnagct 420  
gaaaanccag gacagttttt agggnnntat tgnnatccnc agtataaggc ncc 473

<210> 16

<211> 529

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1477338F1

<220>

<221> unsure

<222> 119, 501

<223> a, t, c, g, or other

<400> 16

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gtgccatcaa caacaccctc attgctttct tcattttgac tacgataaaa ggcagtgctt 180  
tcctcagtgc tattttctt gccttagcga cataccagtc tctgtaccca ctcaccttgt 240  
ttgtcccagg actcccttat ctcctccagc ggcagtacat acctgtgaaa atgaagagca 300  
aagccttctg gatctttct tgggagttat ccattgtatg tggggaaagc ctatgtgtaa 360  
tcatttgcct ctccttcttc ttctcagct cttgggattt catccccca gtctatggct 420  
ttatactttc tgttccagat ctcactccaa acattggctt ttctggtac ttctttgcag 480  
agatgttga gcacttcagc ntcttctttg tatgtgttga cagatcaac 529

<210> 17

<211> 581

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1520634F1

<220>

<221> unsure

<222> 372, 374, 445

<223> a, t, c, g, or other

<400> 17

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ccgtcgact tgccgctccc cagaacctgg accttcctcc tccatcgat ctccccaggc 120  
ttcatctcctt ccaaggccca accactacct gcttatttgc actcagggtg tcccctacac 180  
agtgcgtggc gacgaggagt cacagaggga gccaggggcc agtggggctc caggccagaa 240  
aaagtgcata agctggcccg tggctcaag ggttccgag tacatgttctt accttcagcg 300  
acacagcatac acccaactcgg aggtaaagcc ttccgagttt gacatctgtg ggaaggcatt 360  
caagcgcgcc ancnaattgg cacggcacca ttccattcac ctggcgggtg gtggcggcc 420  
ccacggctgc cgcctctgcc ctgcngcttc cggatgcgg gtgagctggc ccagcacagc 480  
cgggtgcact ctgggaaacg cccgtttcag tggcacactg cctcgccgtt tatggagaga 540  
acacactgca gaaacacacg ggtggaagca tccatgagcg g 581

<210> 18

<211> 637

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1525569F6

<220>

<221> unsure

<222> 462, 485, 510, 514, 550, 562, 602, 617, 622, 625, 629, 636

<223> a, t, c, g, or other

<400> 18

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ttcagaatctt gaagaccggc tagttgtga acaagaaaactt gaaacctcta aggagttgag 120  
taaacgtcag ttctcataaa gtgtgttata cttgcgttgg tgattgcaat 180

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cagcatggga tttggccatt tctatggcac aattcagatt cagaagcgac aacagttgt 240  
cagaaagata catgaagatg aattgaatga tatgaaggat tatcttccc agtgtcaaca 300  
ggaacaagaa tctttatag attataagtc attgaaagaa aatcttgcaa ggtgttggac 360  
acttactgaa gcagagaaga tgtccttga aactcagaaa acgaacctg ctaccagaaa 420  
atcagtattt aagagtatcc ttggagaagg aagaaaaagc cntatcctca ttaccaggaa 480  
agagntaaac aaacttaaga ggaccagttt gganattgga agataaaggg gacaagtact 540  
gaatttagttt aaggaaaatc cngaaacttt aagcagcctt tggaagaggg aaagccggaa 600  
anacaccagc tttcctnagt cnaangggng accctnt 637

<210> 19

<211> 187

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1554775H1

<220>

<221> unsure

<222> 13, 19, 21

<223> a, t, c, g, or other

<400> 19

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aagatggcg aggccccggg tttctggtag gtcctacttt aggacaagat gtggtaccgt 120  
tgaagcgtca gtcttgatt cacagacagt tgagctttc agctggaaag cctttccatt 180  
ttttttt 187

<210> 20

<211> 499

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1596581F6

<220>

<221> unsure

<222> 406, 435

<223> a, t, c, g, or other

<400> 20

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cggaccctta tggaaatgcg ttacatccct ttgaaaagtgg ccctgttcta tctcttaaat 120  
ccttacacga ttttgtctt tggtgccaag tctacctgtg ccatcaacaa caccctcatt 180  
gtttcttca ttttgactac gataaaaggc agtgccttcc tcagtgctat ttttcttgcc 240  
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ctccagcggc agtacatacc tggaaaatgt aagagcaaag ccttctggat cttttcttgg 360  
gagtagtgcctt tgatgtatgt gggaaagccta gtggtaatca ttgcntctc cttcttcctt 420  
ctcagctctt ggganttcat ccccgcaagtc taatggctta tactttctgt tccagatctc 480  
atccaaacat tgggtcttt 499

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<210> 21  
<211> 287  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 1596581T1

<220>  
<221> unsure  
<222> 122, 144, 266, 273  
<223> a, t, c, g, or other

<400> 21  
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ggcctacttg agcacgagca tggcctctgt gccatccttg gcggtaagt agaggccatg 120  
tntgaggttag tactcccgcc gcangaaggc atagaagtaa tcagagatga gcaggatctg 180  
cccaacgttg aaggtcagtg tgatggcata aaagaaatta gagttggcac ttccctgcata 240  
aatccagagg tgccacagga cagggnagaa cangggacag acgattt 287

<210> 22  
<211> 579  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 162871X4

<220>  
<221> unsure  
<222> 22, 25, 32, 106, 123, 126, 135, 208, 216, 219, 234, 236, 263, 271,  
282, 287, 292, 358, 360, 363, 365, 379, 412, 441, 452, 459, 483, 485,  
499-500  
<223> a, t, c, g, or other

<400> 22  
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atttctggta ggtcctactt taggacaaga tgtggtaccg ttgaancgtc agtctttgat 120  
tcncanacag ttganctttt cagctggaa gccttccat tttttttttt aacggcttcc 180  
tgaacctatg aaaccatggc aaaagganaa acaaantcnc ctggggccaa aaantntggc 240  
ccatatattt catctgtcac tanccaaatt ntgaacttga tnattcnagg antattgcta 300  
ttttttattt ggttatttct tgcatttagt ttaaatttac ttcaaattca aaaaaattnn 360  
acncncttcc cacctgatnt gattgcaagc atctttctt ctgcattgtg tnattgggtt 420  
attatacccc tgcatttaaca nacatctagg anaaccacnt aaatttaaaa aaaagtggtc 480  
cantntaattg cggtgtgtnn cagtctttgt tggtataaat catgccagtg ctaaagtggaa 540  
tttcgataaac aacatacagt tgtctctcac actggcgca 579

<210> 23  
<211> 250  
<212> DNA  
<213> Homo sapiens

PF-0531 USN

<220>  
<221> misc\_feature  
<223> Incyte ID No: 162871X92

<220>  
<221> unsure  
<222> 8, 17, 24, 27, 33, 36, 43, 246  
<223> a, t, c, g, or other

<400> 23  
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ttctgctgtg attgggttat tatacccctg cattgacaga catctaggag aaccacataa 120  
atttaaaaga gagcggtcca gtgtaatgcg gtgttagca gtcttggtt gatataatca 180  
tgccagtgc aaagtggatt tcgataacaa catacagttg tctctcacac tggctgcact 240  
atcttnaaaa 250

<210> 24  
<211> 250  
<212> DNA  
<213> Homo sapiens  
<220>  
<221> misc\_feature  
<223> Incyte ID No: 1658067H1

<220>  
<221> unsure  
<222> 8  
<223> a, t, c, g, or other

<400> 24  
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gattccttag aAACatcttt gtcctcacct gcatcatcat cgtctgttcc ctgctcttcc 120  
ctgtcctgtg gcacccctgg atttatgcag gaagtgcAA ctctaatttc ttttatgcCA 180  
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tgcggcggga 250

<210> 25  
<211> 736  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 1706512F6

<220>  
<221> unsure  
<222> 419, 435, 453, 462-463, 471, 476, 513, 516, 563, 585-586, 597, 611,  
618, 652, 661, 680, 684-685, 692-693, 701, 714, 725, 731  
<223> a, t, c, g, or other

<400> 25  
atcagaagct cttcactgac tttgttaatg atgttaaaga ttatctttaga aacatgaagg 60

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tctttggtca cacttttcc cctccatatg gaccaggc ggttacata aaaccgtgtc 180  
attacagtag ttgtAACAT ttgtAGATTG gatAGCATT ttatgattt atgagttct 240  
tgtaaggta ccgttctaa gagttgtgt ttatggcac tgagagaatt ccagaataaa 300  
ttgaaagatg ggagtccctaa aaatttaatt agccggttac caaatgggaa cctttccat 360  
tagtaacggt gattccacct ttggacctt gaggccaaat gggtttaat ttttttaanc 420  
ccttaaaaaaa atccnggttt aaaggaatta ttnttaaaga annccccacc ntttngggc 480  
ccaagggttt gtttccct tttccattt aanaangtt ttaataatgg aaaaaaggat 540  
tccaccctt aaagggtgggaa aanttaatt tttcccccct taaannccct ttttaanggg 600  
aatttaaatt ncccttnct gggaaGCCA agggatgga ggcccacccc cnaattttta 660  
nccccggaag gtccggaagn gcnnncat annaataatt nccaaaggc cccncccaat 720  
tttcnccctgg ncccat 736

<210> 26  
<211> 611  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 1722946F6

<220>  
<221> unsure  
<222> 213, 223, 369, 406, 423, 469, 475, 490, 494, 498, 524, 548, 570, 574,  
582, 584, 594, 597, 605, 607  
<223> a, t, c, g, or other

<400> 26  
atggcgccc gagctgtgac cgccgccact ggggcagCCA gcacaatcgG gcccgggtgg 60  
cgctgcccct tcagacctGA aagatgtctG aaaattccAG tgacagtgtat tcatcttGtG 120  
gttggactgt catcagtcat gaggGGtcaG atatAGAAat gttGAATTCT gtgacccccCA 180  
ctgacagctg tgagccccCC ccagaatgtt canctttAGA gcnAGAGGAG cttcaAGGcat 240  
tgcagataga gcaaggagaa tgcagccaaa atggcacAGt gcttatggaa gaaACTGCTT 300  
atccagctt ggaggAAACC agctcaacAA ttgaggcaga ggaacAAAAG atacCCGAAG 360  
acagtatcna tattggAACT gCcAGTGGTG attctgatAT tgTTAnCCCT tgAGCCACTA 420  
agnttagaag gaattgggGA tCCAAGAAGt tGTCATTGTT gaAGAAAGNC caAGNTCCGG 480  
agactttan catnGGGNTc ttccTCTAGC agccAGTATA ctTNTCTGTt cAGCCCAGAA 540  
aactggant tcAtcttCAG cctaAtgAcN gtGNAATCAA gntNGTGTG gaANCCNGTT 600  
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<210> 27  
<211> 592  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 1853196F6

<220>  
<221> unsure  
<222> 94, 104, 149, 167, 215, 226, 232, 275, 298, 301, 312, 333, 362, 364,  
367, 376, 391-392, 395, 412, 415, 419, 429, 435, 443, 449, 452, 462-464,

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466-468, 470, 476, 485, 489, 492, 502, 514, 529, 533, 541, 550, 557-558,  
567, 572, 574, 577, 580  
<223> a, t, c, g, or other

<400> 27

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ttaacacagt ggtgaatcct ataaggatgg atgnatttag acanataatt caaaggtaca 120  
tgtaaaaga actggatact tttgtcant ggaacgaact tgatcantic atcaataagt 180  
tttcctaaa cggtgtctt atacatgatc agaancttt cactgnctt gntaatgatg 240  
ttaaagatta tcttagaaac atgaaggata tgaantagat aatgatggag tatttgcnaa 300  
nttggatgga tntatatata gacacttctt tgntcacact tttccctc cataatggcc 360  
cngntcngett tacatnaaac cgtgtcttac nntantttgt aacatttgta gntgnatanc 420  
attttaant ttgangagtt tcntgtaang tnacggttcc annnnnnntn ctttanagcc 480  
accanagana antcgatcaa antgaaagta gggntccaaa attattaant gtnccaatag 540  
nacttcctn ataaagnngt cacctngt tnancnath ggttaattt tt 592

<210> 28

<211> 447

<212> DNA

<213> Homo.sapiens

<220>

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<223> Incyte ID No: 2238411F6

<400> 28

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aggcactgga gcgaccgcgg gggccagggc gctgagccct cgtgctggaa tgggtgtctg 180  
gtatctgaac tgagcctgct ggctggacca actgtcctcg aaaagacaca gctggcttcc 240  
ctagtagaca gaacaggcgt tggccactt tggagagaca gaatctagtc ctggcaact 300  
tcacatccgt cctcctgtct cagggctggc agggggagcc tggattacc ccctagtgtat 360  
ggaatgacag ggtctgggtgg ggactgaatt ccctggccct ggggtcatag cttggctgt 420  
tccttctctg atacgggaag agacccc 447

<210> 29

<211> 247

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2312928H1

<220>

<221> unsure

<222> 234

<223> a, t, c, g, or other

<400> 29

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tttccgagcg ggtggaggtg gtgtccccac tgagctcttga aagagagtg gttgaaggcc 120  
tttcactgtt ggacttggga gatatccgt attctggagc agtatttcat gaaactccat 180  
taataatata cctctttcat ttcctaatttactatgctga attgggtttt atgntaactg 240

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atgcact 247  
<210> 30  
<211> 190  
<212> DNA  
<213> Homo sapiens  
  
<220>  
<221> misc\_feature  
<223> Incyte ID No: 3015795H1  
  
<220>  
<221> unsure  
<222> 162-163  
<223> a, t, c, g, or other  
  
<400> 30  
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gatggaatga cagggtctgg tggggactga attccctggc cctggggtca tagcttggc 120  
tgttccttct ctgatacggg aagagacccc aatcagattt tnnaaattaa agccagtcct 180  
gggaaatctc 190  
  
<210> 31  
<211> 253  
<212> DNA  
<213> Homo sapiens  
  
<220>  
<221> misc\_feature  
<223> Incyte ID No: 3231214H1  
  
<220>  
<221> unsure  
<222> 121  
<223> a, t, c, g, or other  
  
<400> 31  
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catcttcttc atgttatcc agatcgctgt catcgccatc tttaagtctt acccgacagt 120  
nggggacgtg gcgctctaca tggccttctt ccccgtgtgg aaccatctt acagattcct 180  
gagaaaacatc tttgtcctca cctgcatcat catcgctgt tccctggctc ttccctgtcc 240  
tgtggcacct ctg 253  
  
<210> 32  
<211> 273  
<212> DNA  
<213> Homo sapiens  
  
<220>  
<221> misc\_feature  
<223> Incyte ID No: 3985439H1  
  
<220>  
<221> unsure

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<222> 88

<223> a, t, c, g, or other

<400> 32.

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cttgggtact ttccctctcg tttgtgtntc tggccggagc cgtttcgcga cggcccggc 120  
gccccgcccc aaccttcctt ccctagaccc tcttctctcc ctccggcttc tctcttcgg 180  
ccggcgccgc cagttctgg ggcacaccca gaggtccct ttcgcgcgc gcctgcaact 240  
gcgaggtag cccggggccg cttggagtgc ccc 273

<210> 33

<211> 618

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 403002R6

<220>

<221> unsure

<222> 190, 336, 351, 413, 420, 423, 432, 441, 449, 454, 462, 510, 520, 524,  
530, 552, 555, 557, 560-561, 569, 574, 584-585, 594, 596, 611, 614

<223> a, t, c, g, or other

<400> 33

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agtgtacag ctgccccgtg tgctcaaggg tcttcgagta catgtccctac cttagcgcac 120  
acagcatcac ccactcggag gtaaagccct tcgagtgta catctgtgg aaggcattca 180  
agcgcgccan ccacttggca cggcaccatt ccattcacct ggcgggtggt gggcgcccc 240  
acggctgccc gctctgccc cggcgttcc gggatgcggg tgagtggccc aagcacagcc 300  
gggtgcactc tggggAACGC ccgtttca gtcaanactg cttcgccgg nttaatgga 360  
gcagaacaca attgcagaaa acaacaccgc gttggaaag catcccattt aancgggn 420  
ttncgggtt tncccaagg ntaccaaang gaanttttc anaggggaac cttgaaatt 480  
ccctgttcca aaaaaacctt gttaaaaan ccctaaaggn tggnttttn aggggcctt 540  
gaaaaacagg ancanangn nacgggant tttnaaagg aaannccctt gcnanaagg 600  
ggaatcccg naantaat 618

<210> 34

<211> 297

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 510407R6

<400> 34

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atggagtcct ttagctaaa gatatcagct gttccatggc agagccttga ctggatggag 120  
gtggggagtg tgggtgttaa agtctctggc ctcataaaag gtggctgtgg gtcgtcagga 180  
atctgcgcctc tcttcctggg gttctgcgc tttgttggg gaagggaccc cagtcctgcc 240  
ttccacccccc caaccaggcc tgagactgat caaacataaa acacgttcc cactctg 297

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<210> 35  
<211> 239  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 3590729H1

<220>  
<221> unsure  
<222> 91  
<223> a, t, c, g, or other

<400> 35

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gacccatggc tgactgacag caaggcctat nggagaacaac tgggagctcc ccaacttgg 120  
cccccacct gtggctctgc acaccaagga gcccccctccc agacaggaag gagaagaggc 180  
aggtgagcag ggcttgtag attgtggcta cttaataaat gtttttgtt atgaagtct 239